

WHAT IS CLAIMED IS:

1. A portable communications terminal comprising:  
display part having a display surface for displaying an  
image;  
main body having at least an antenna for transmitting  
and receiving radio waves for wireless communications, a speaker  
for outputting voice, and a pointing device for controlling  
at least a cursor displayed on said display surface; and  
joining part for joining said display part to said main  
body in an angularly movable fashion, and wherein:  
said speaker is disposed on one main surface of said main  
body, and  
said pointing device is disposed on the other main surface  
of said main body opposite from said one main surface.

2. The portable communications terminal according to claim  
1, further comprising an auxiliary display, mounted in said  
main body, for displaying at least textual information.

3. The portable communications terminal according to claim  
1, wherein said display part includes a first member where  
said display surface is provided, and a second member joined  
to said first member in an angularly movable fashion.

4. The portable communications terminal according to claim  
1, wherein an answer button is provided to answer an incoming  
call with the display surface of said display part covered  
by said main body.

~~5. The portable communications terminal according to claim 1, wherein said joining part joins said display part to said main body in a detachable fashion.~~

~~6. An information display device comprising:  
imaging means of capturing an image;  
image processing means of processing the image captured by said imaging means;  
position detecting means of detecting from said processed image the position of said image on a screen;~~

~~display means of displaying prescribed information on a display surface;~~

~~control means of displaying a designated pointer on said display surface in accordance with the position detected by said position detecting means;~~

~~antenna for transmitting and receiving radio waves for wireless communications;~~

~~transmit processing means of processing a signal to be transmitted in the form of said radio waves; and~~

~~receive processing means of processing the radio waves received by said antenna as a signal.~~

~~7. The information display device according to claim 6, wherein the display surface of said display means is chosen to be equal in size to a region within which said imaging means captures said image, or to be smaller than said capture region.~~

~~8. The information display device according to claim 6,~~

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wherein said image processing means extracts a contour of said image, and

said position detecting means detects said designated position from said extracted contour.

9. The information display device according to claim 6, wherein said image processing means performs processing on portions of said image that are designated by a specific color and/or a specific temperature, and/or on portions of said image that lie within a focal length of said imaging means.

10. The control input device comprising:

the information display device according to any one of claims 6 to 9; and

input means of carrying out a control input on an object pointed to by said pointer on said display surface.

11. The control input device according to claim 10, further comprising image pattern registering means in which are registered one or a plurality of image patterns associated with one or a plurality of said control inputs respectively, and wherein:

said input means compares the image captured by said imaging means or the image extracted by said image processing means with the image patterns stored in said image pattern registering means and, if said extracted image matches any one of said image patterns, carries out a control input that corresponds to said matching image pattern.

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12. The portable communications terminal comprising:  
control input device according to claim 10;  
main body containing at least said imaging means and said  
antenna;  
display part containing at least said display means; and  
joining part for joining said main body to said display  
part in an angularly movable fashion.

13. A portable communications terminal according to claim  
1 or 12, further comprising a detection switch for detecting  
said main body being held by a user, said detection switch  
being mounted on said other main surface or a side face of  
said main body, and wherein:  
said display part is activated when said detection switch  
detects said main body being held by a user, and  
said display part is deactivated when said detection switch  
no longer detects said main body being held.

14. A portable communications terminal comprising:  
display part having a display surface for displaying an  
image;  
main body having at least an antenna for transmitting  
or receiving radio waves for wireless communications, and  
speaker for outputting voice;  
joining part for joining said display part to said main  
body in an angularly movable fashion;  
attitude detecting means of detecting the attitude of

said main body; and

display orientation switching means of switching the orientation of said image displayed on said display part, based on a detection result output from said attitude detecting means.

15. The portable communications terminal according to claim 14, wherein said attitude detecting means detects the attitude of said main body by using a mercury switch.

16. The portable communications terminal according to claim 14, wherein said orientation detecting means detects the attitude of said main body by using a gyro.

17. A control input method using a control input device according to claim 11, comprising the step of performing a prescribed gesture so as to be captured by said imaging means, wherein

said control output is produced by said prescribed gesture.

18. A program for causing a computer to function as all or part of the means of the information display device described in claim 6, said means consisting of imaging means of capturing an image, image processing means of processing the image captured by said imaging means, position detecting means of detecting from said processed image the position of said image on a screen, and display means of displaying prescribed information on a display surface.

19. A program for causing a computer to function as all or part of the input means of the control input device described

in claim 10, said input means carrying out a control input on an object pointed to by said pointer on said display surface.

20. A program for causing a computer to function as all or part of the means of the portable communications terminal described in claim 14, said means consisting of attitude detecting means of detecting the attitude of said main body, and display orientation switching means of switching the orientation of said image displayed on said display part, based on a detection result output from said attitude detecting means.

